

FIG. 1(a)

105

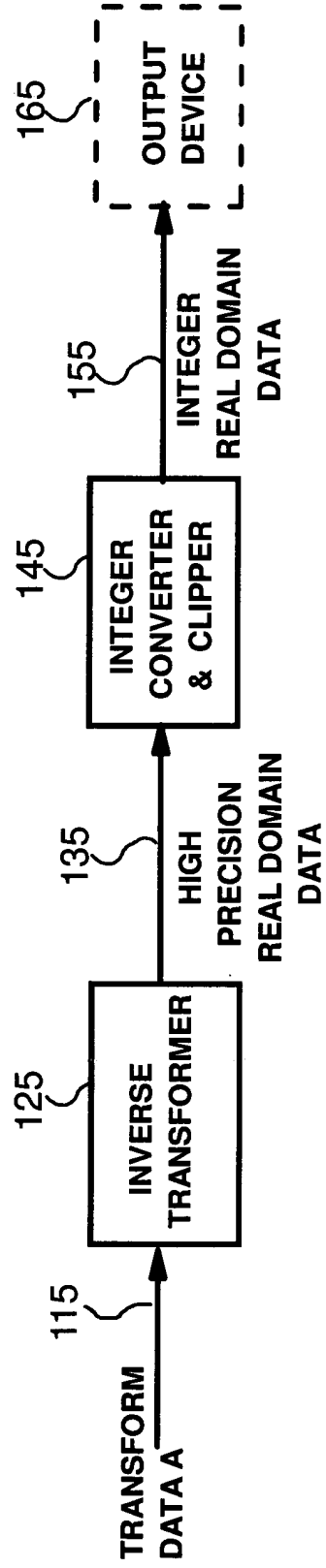


FIG. 1(b)

200

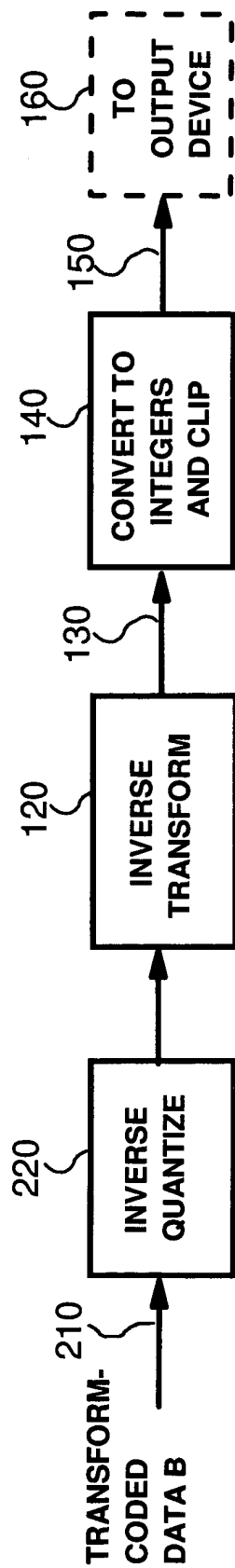


FIG. 2(a)

205

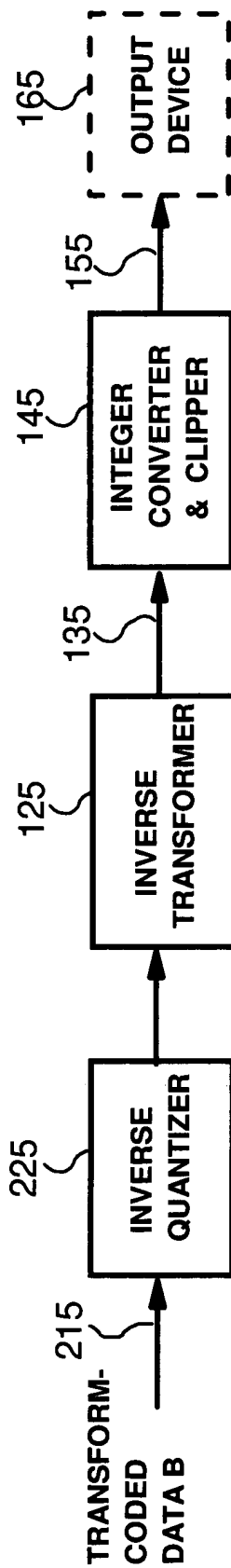


FIG. 2(b)

300

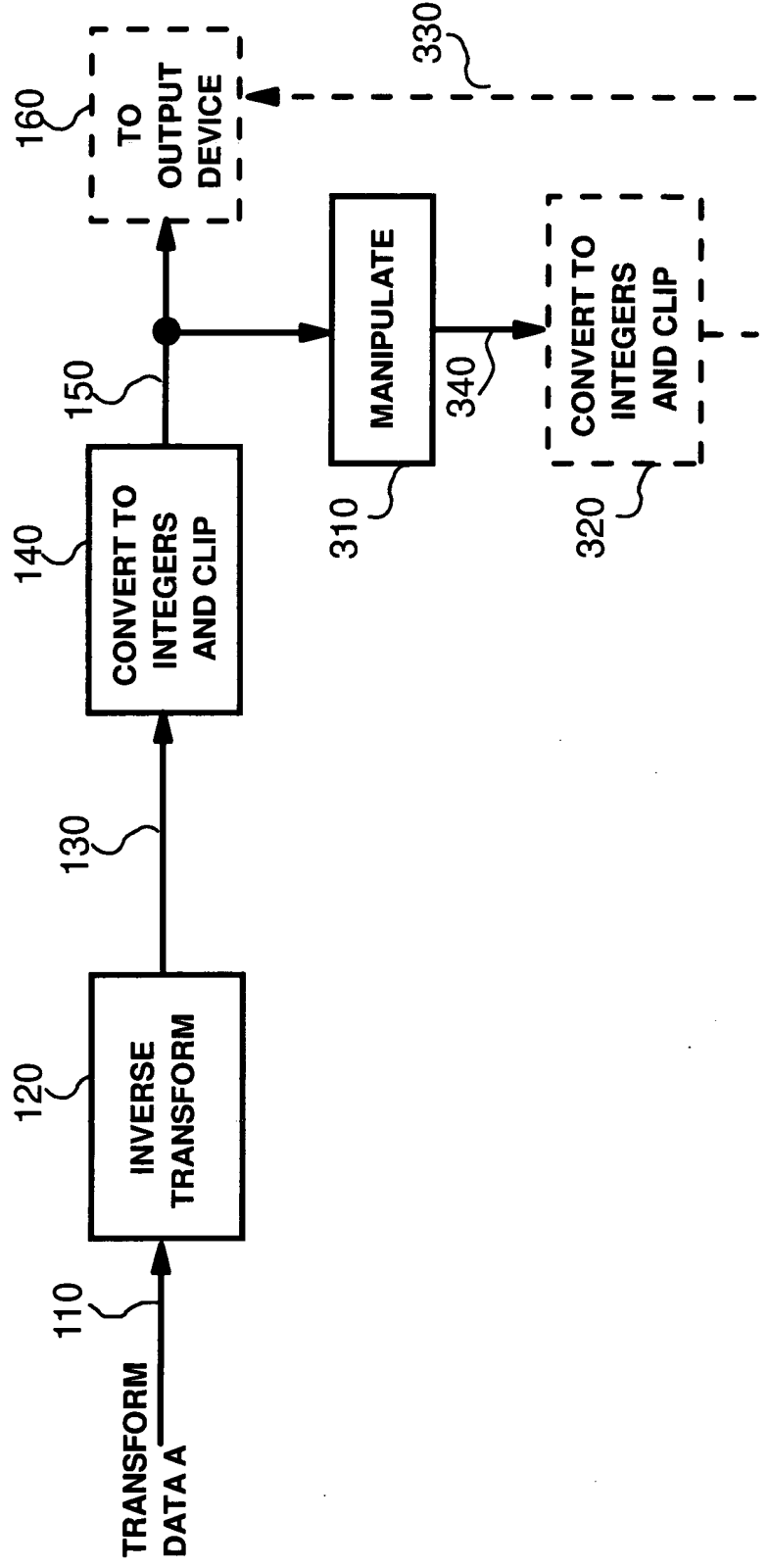


FIG. 3

400

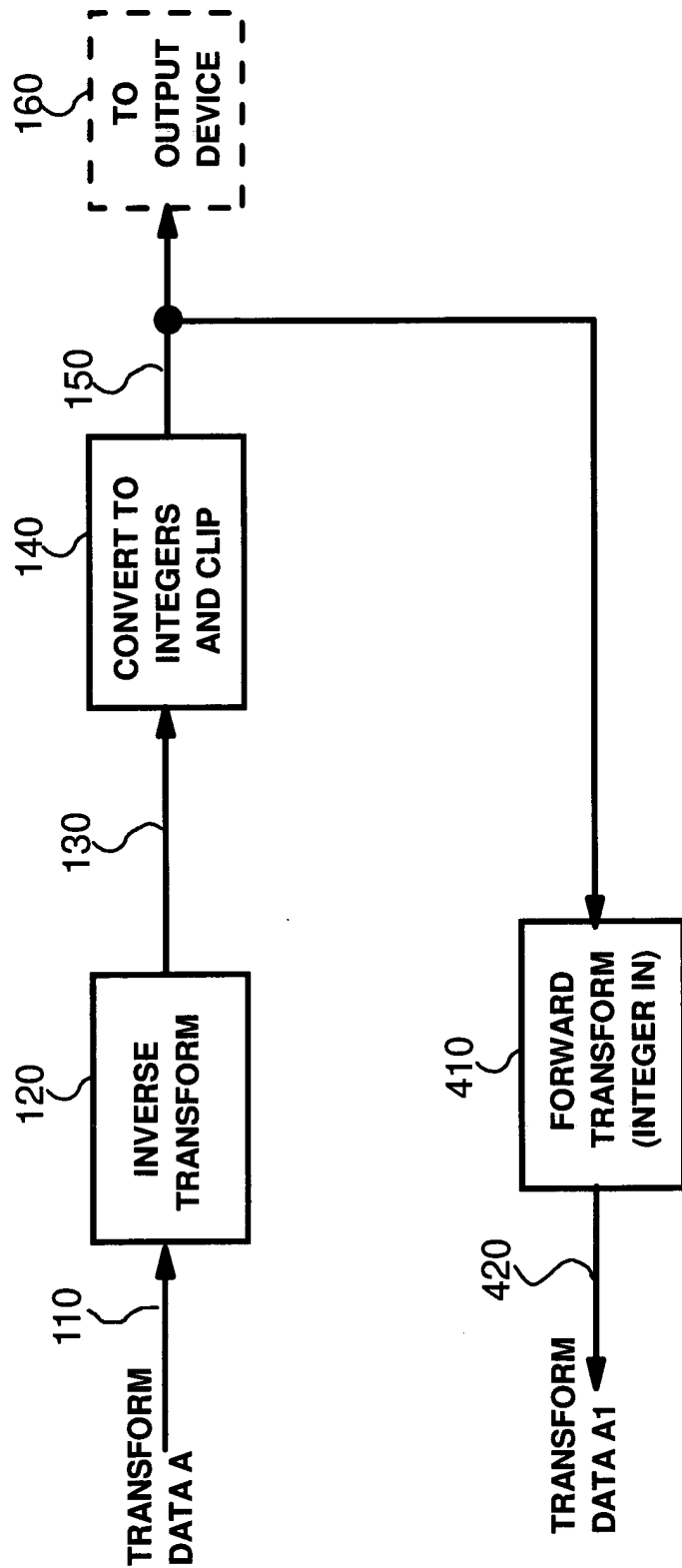


FIG. 4

500

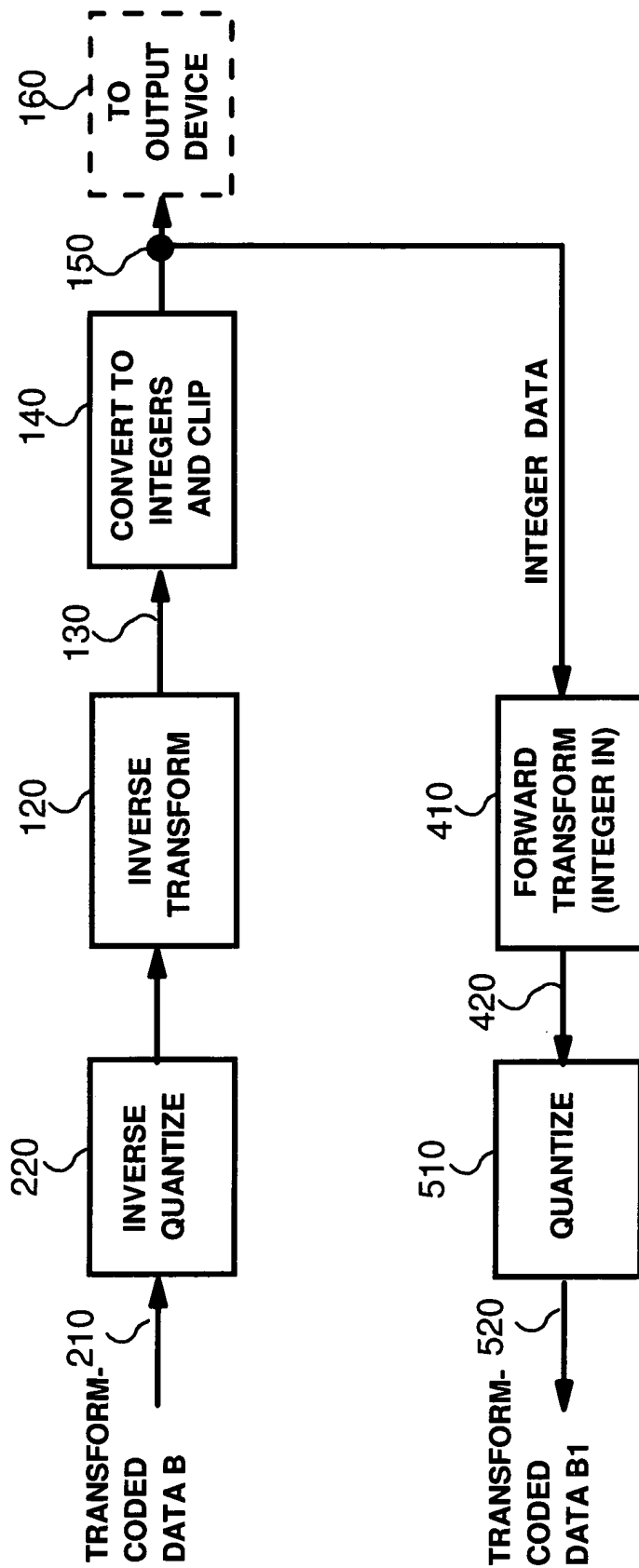


FIG. 5

600

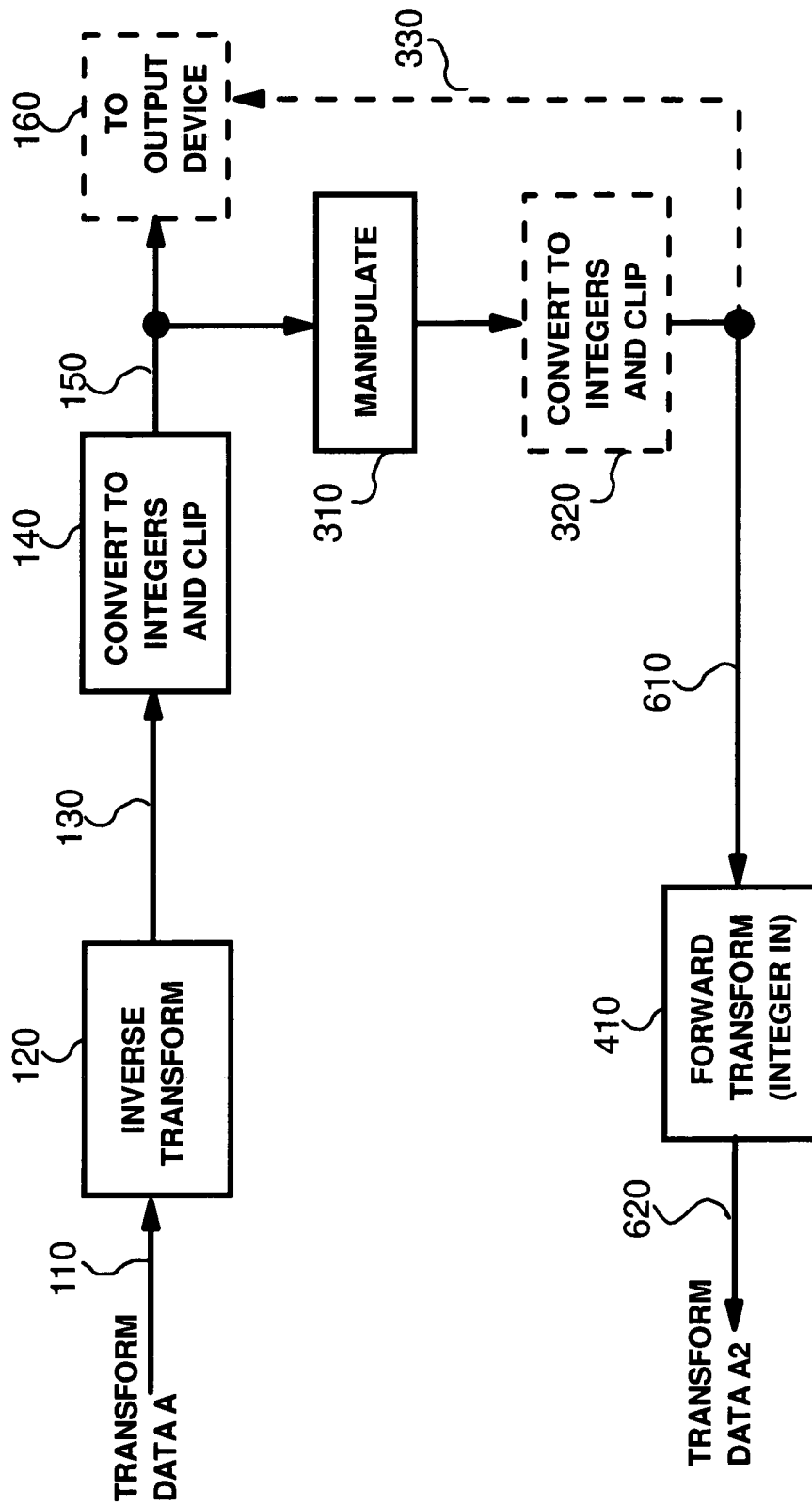


FIG. 6

700

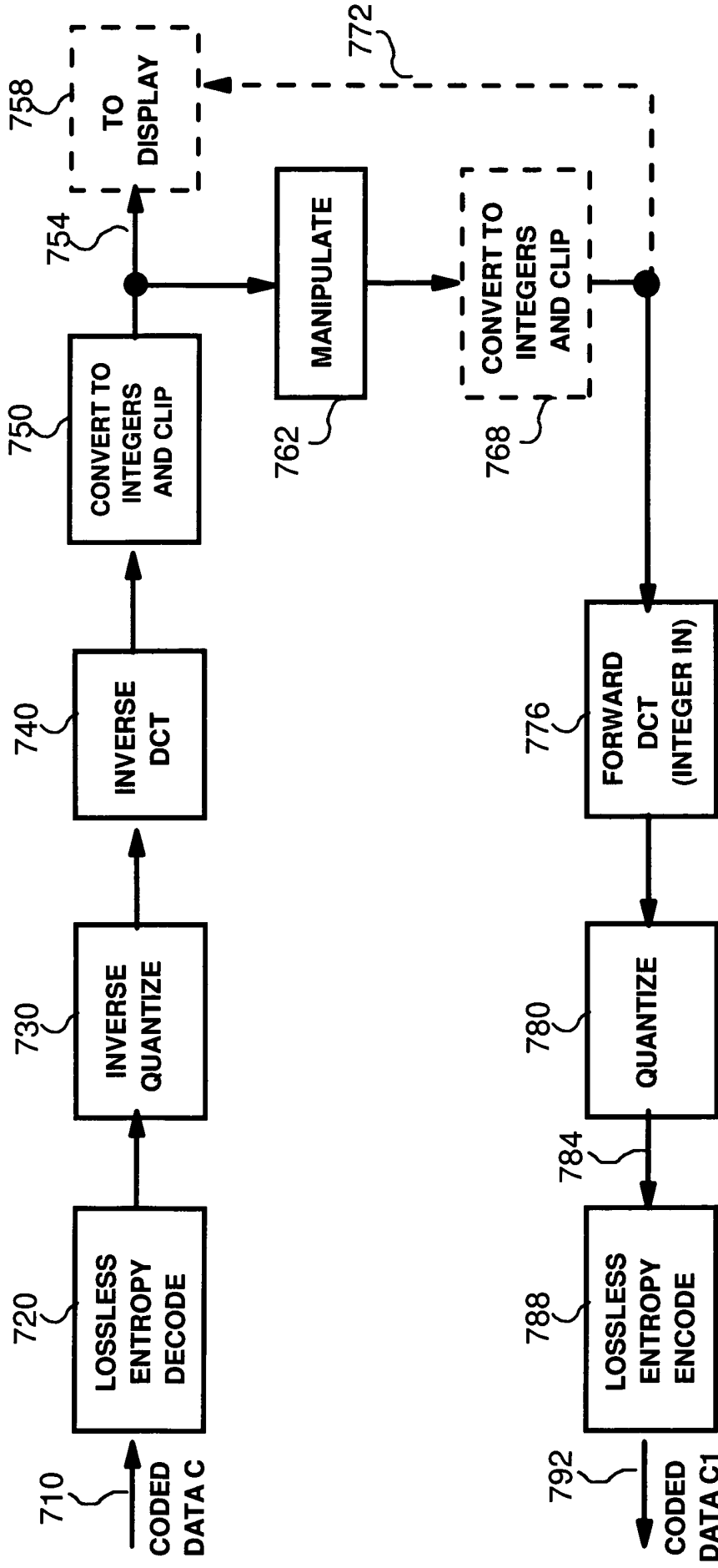


FIG. 7(a)

705

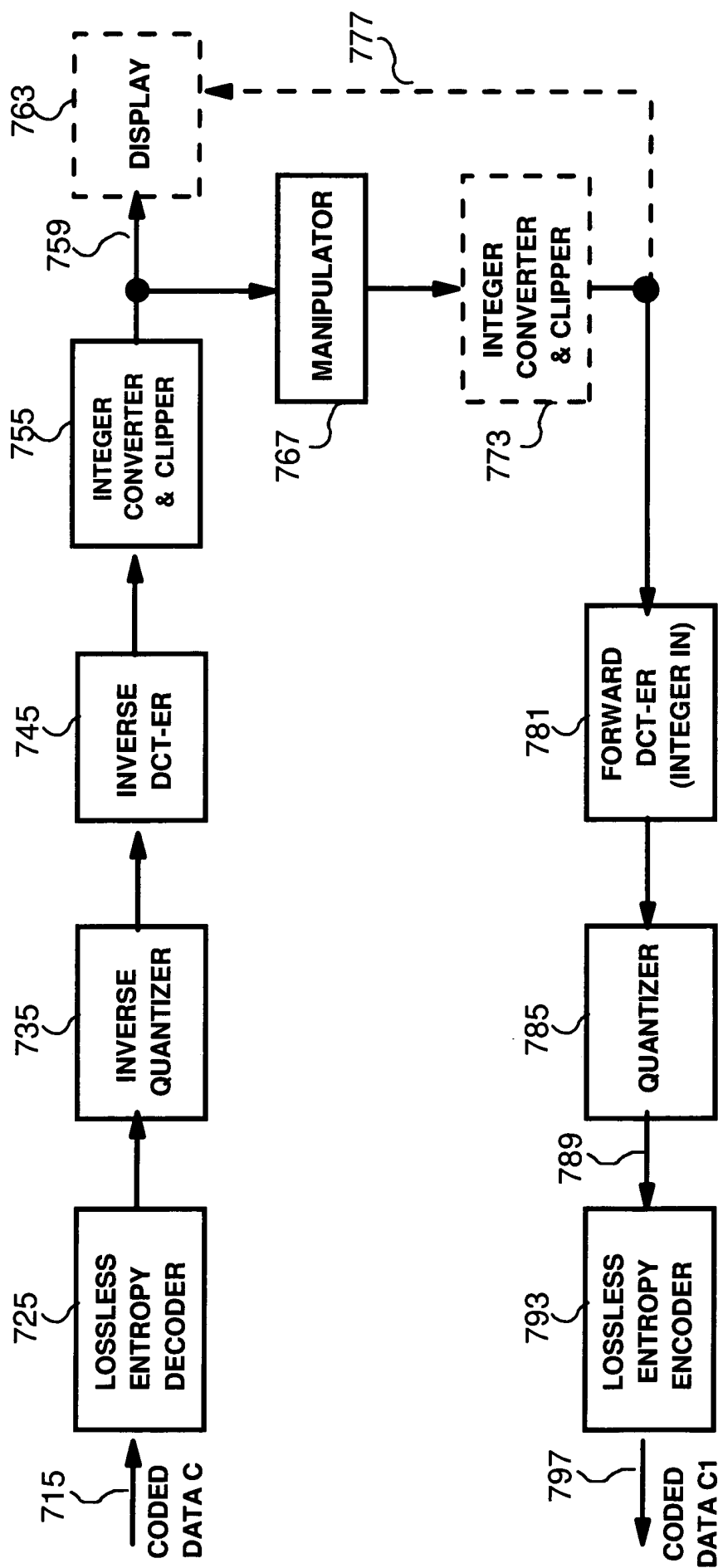


FIG. 7(b)

800

804

16	11	10	16	24	40	51	61
12	12	14	19	26	58	60	55
14	13	16	24	40	57	69	56
14	17	22	29	51	87	80	62
18	22	37	56	68	109	103	77
24	35	55	63	81	104	113	92
49	64	78	87	103	121	120	101
72	92	95	98	112	100	103	99

FIG. 8(a)

810

814

17	18	24	47	99	99	99	99
18	21	26	66	99	99	99	99
24	26	56	99	99	99	99	99
47	66	99	99	99	99	99	99
99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99

FIG. 8(b)

822

824

826

828

FIG. 8(c)

830

832

$$\begin{pmatrix} 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$$

INVERSE DCT

834

128.875 128.875 128.875 128.875 128.875 128.875 128.875 128.875
 128.875 128.875 128.875 128.875 128.875 128.875 128.875 128.875
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 128.875 128.875 128.875 128.875 128.875 128.875 128.875 128.875

TRUNCATE TO INTEGERS

836

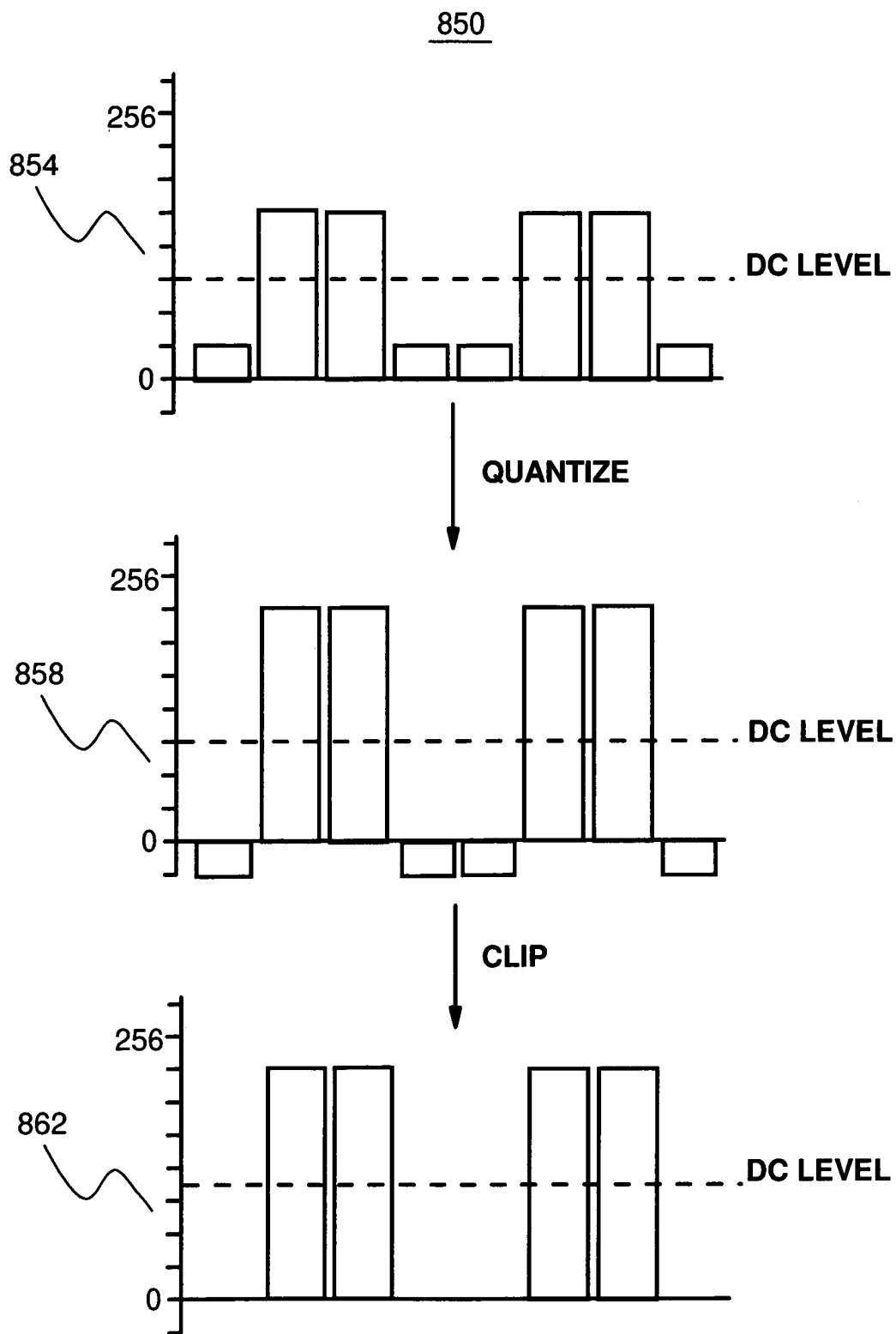
128 128 128 128 128 128 128 128
 128 128 128 128 128 128 128 128
 128 128 128 128 128 128 128 128
 128 128 128 128 128 128 128 128
 128 128 128 128 128 128 128 128
 128 128 128 128 128 128 128 128
 128 128 128 128 128 128 128 128
 128 128 128 128 128 128 128 128

FORWARD DCT

838

$$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$$

FIG. 8(d)

**FIG. 8(e)**

870

874

$$\begin{pmatrix} -34 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 5 \end{pmatrix}$$

INVERSE QUANTIZE

878

$$\begin{pmatrix} -544 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 495 \end{pmatrix}$$

INVERSE DCT & ROUND

882

$$\begin{pmatrix} 65 & 47 & 80 & 36 & 84 & 40 & 73 & 55 \\ 47 & 98 & 3 & 127 & -7 & 117 & 22 & 73 \\ 80 & 3 & 146 & -41 & 161 & -26 & 117 & 40 \\ 36 & 127 & -41 & 179 & -59 & 161 & -7 & 84 \\ 84 & -7 & 161 & -59 & 179 & -41 & 127 & 36 \\ 40 & 117 & -26 & 161 & -41 & 146 & 3 & 80 \\ 73 & 22 & 117 & -7 & 127 & 3 & 98 & 47 \\ 55 & 73 & 40 & 84 & 36 & 80 & 47 & 65 \end{pmatrix}$$

A

FIG. 8(f)

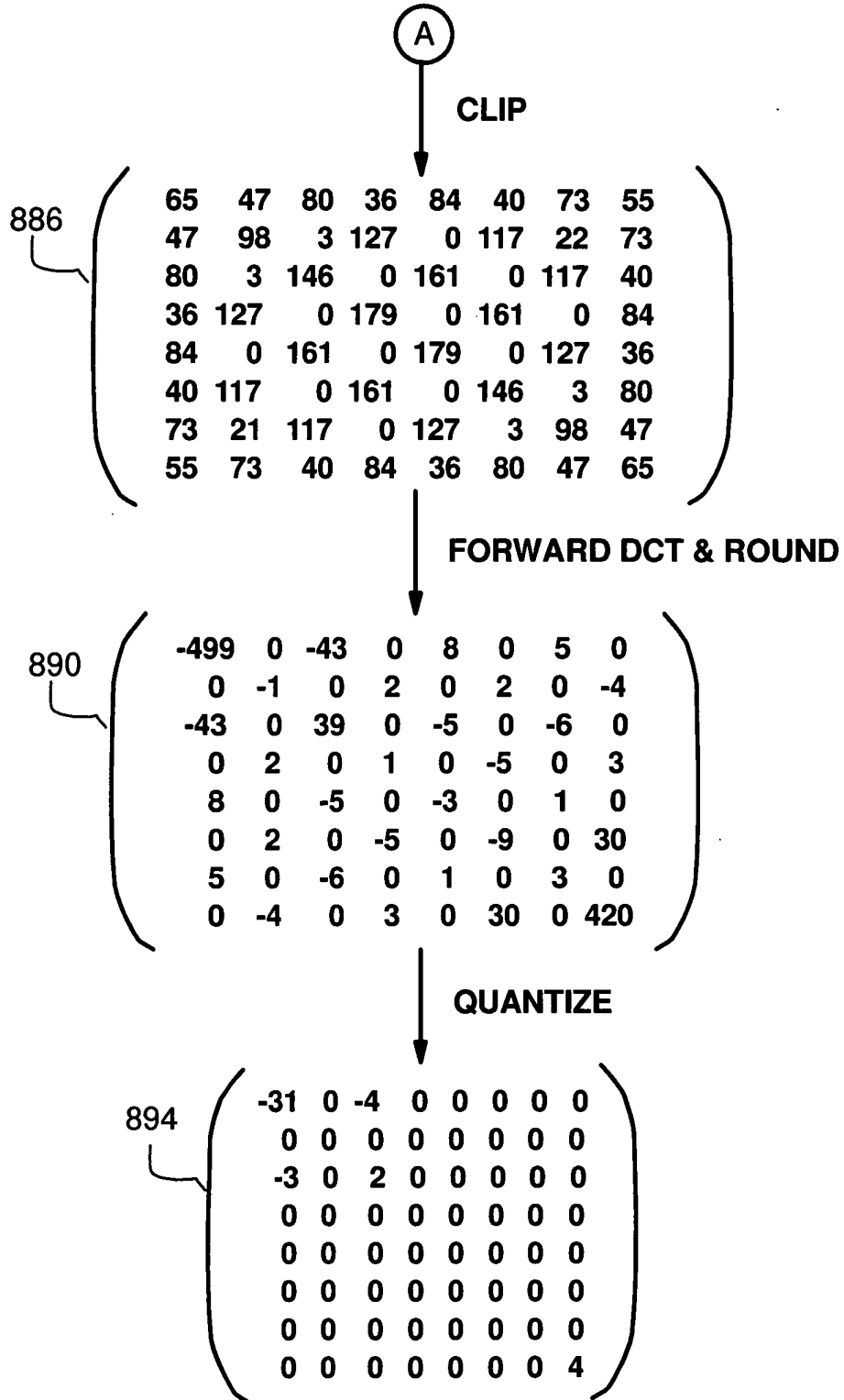


FIG. 8(g)

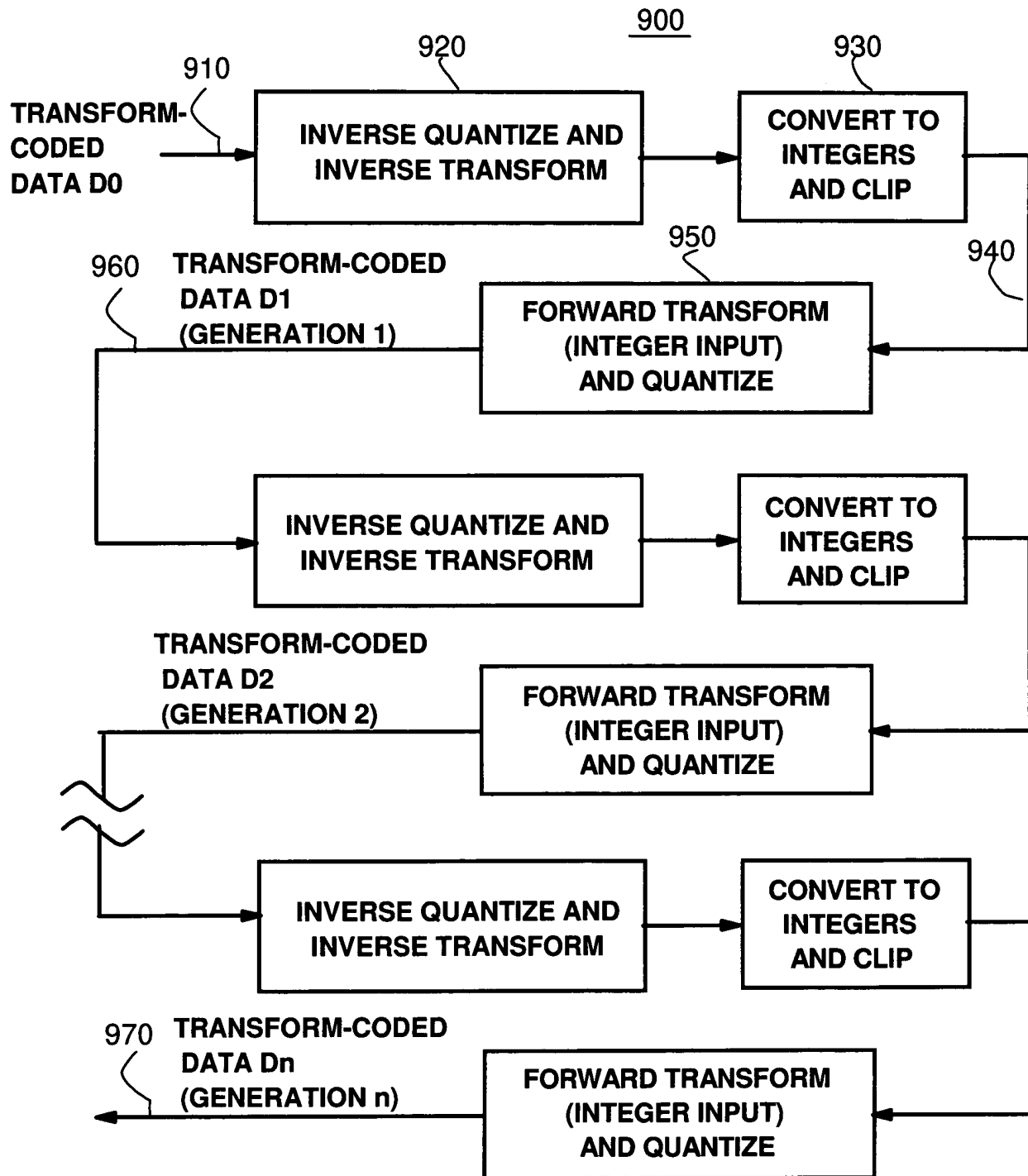


FIG. 9

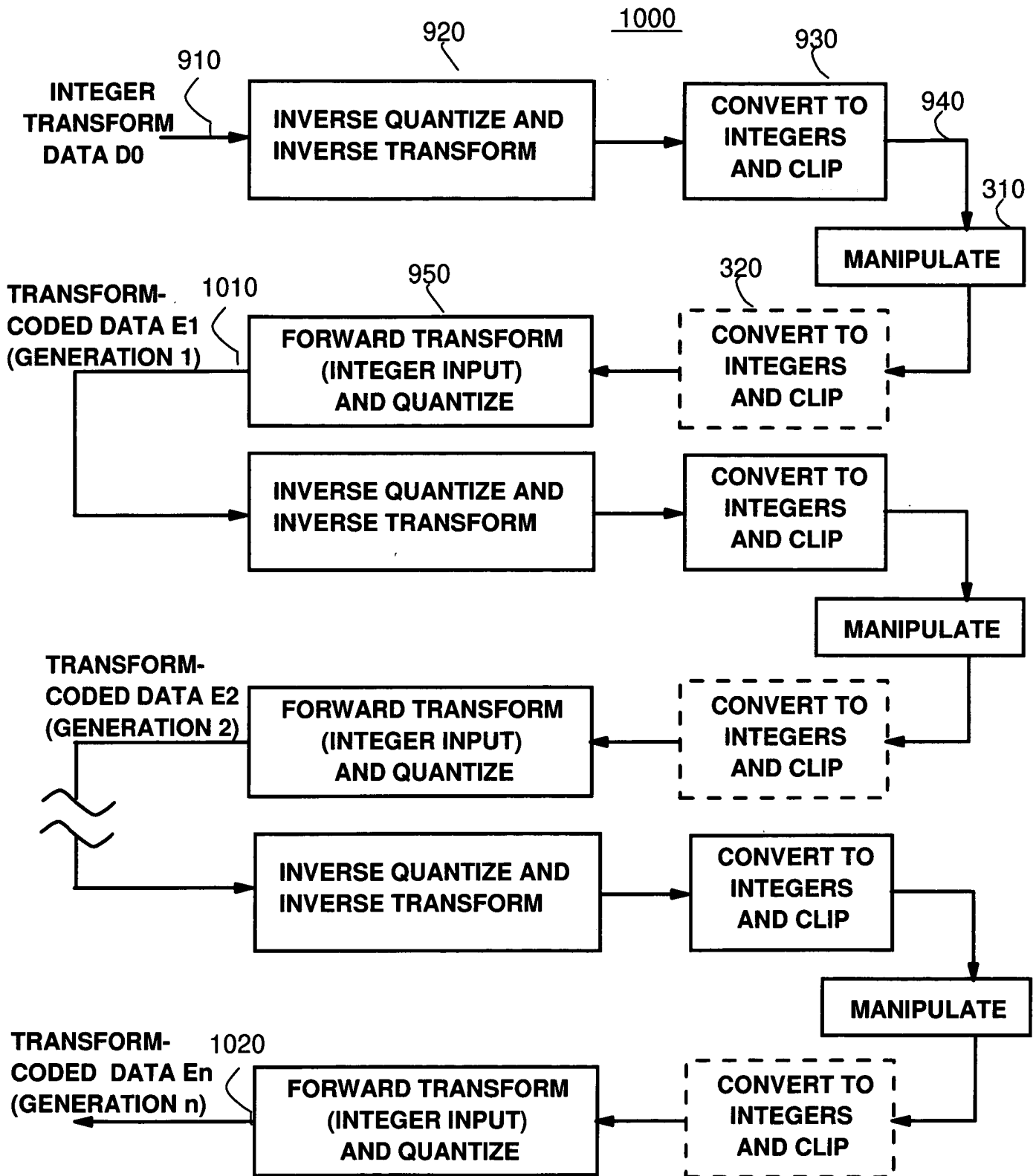


FIG. 10

1100

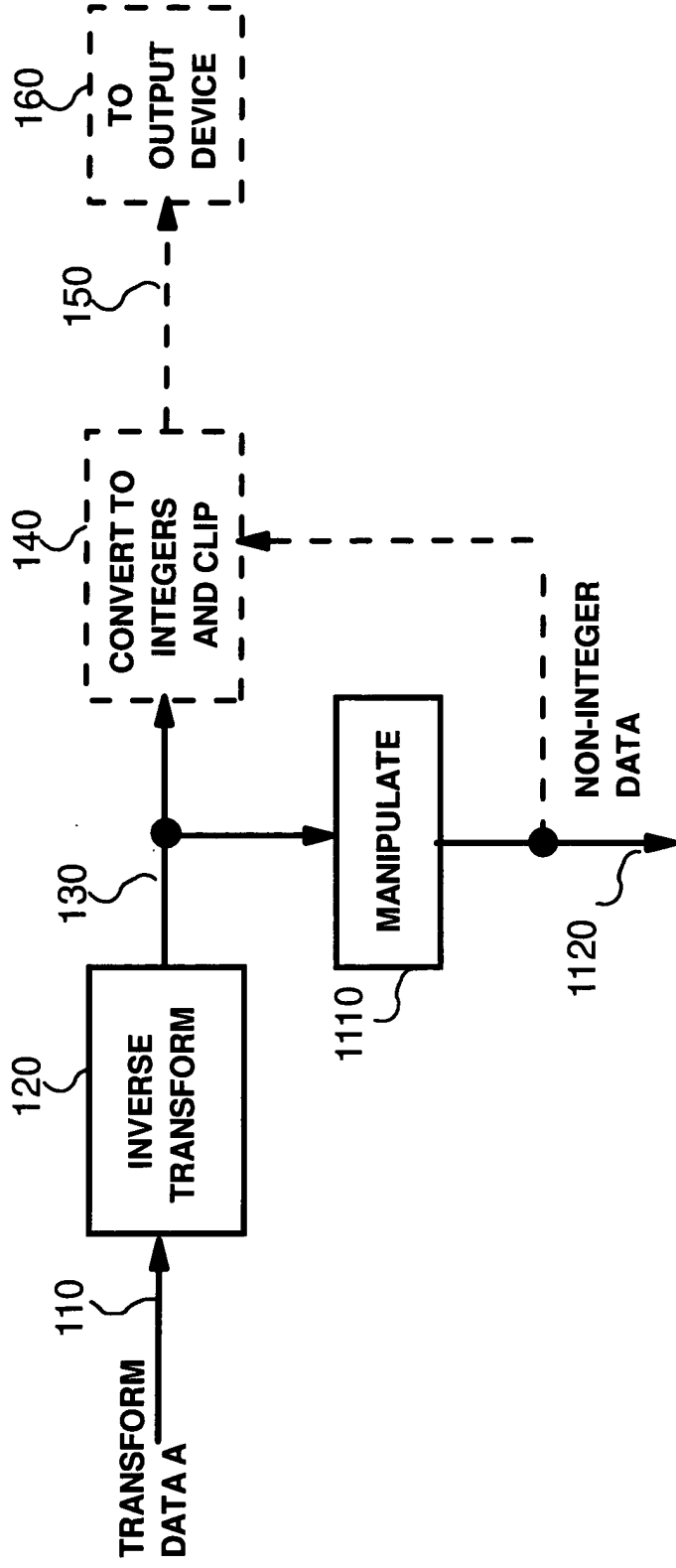


FIG. 11(a)

1105

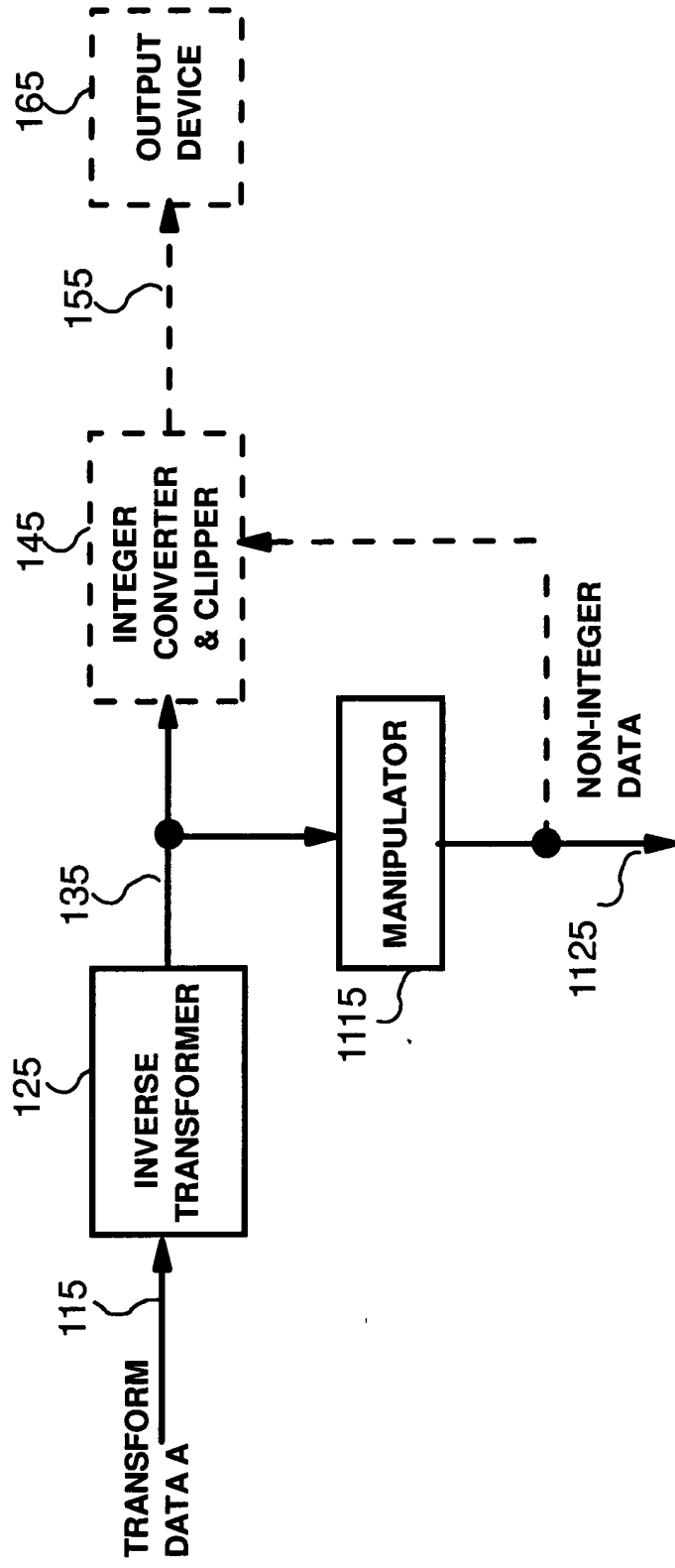


FIG. 11(b)

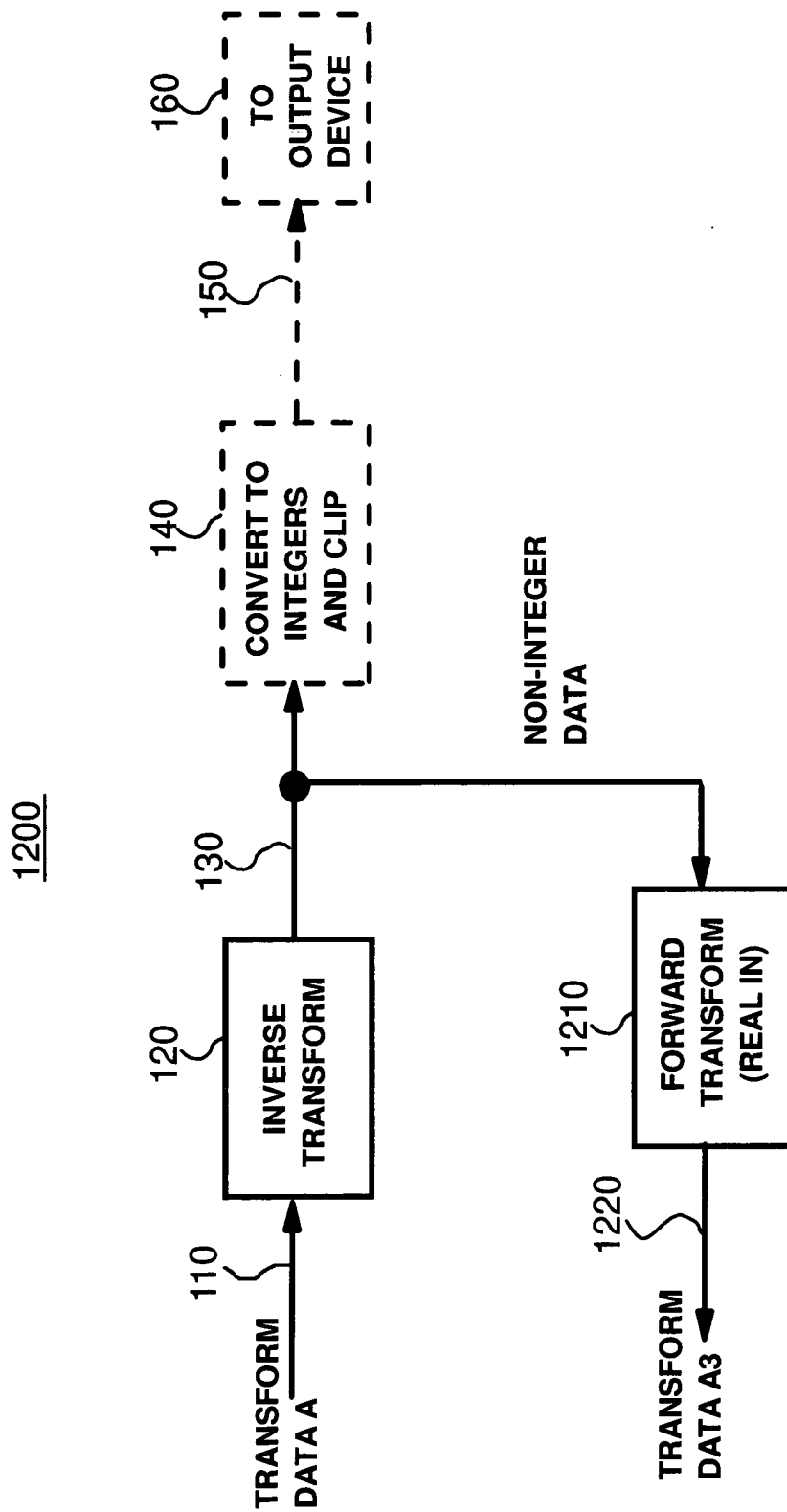


FIG. 12(a)

1205

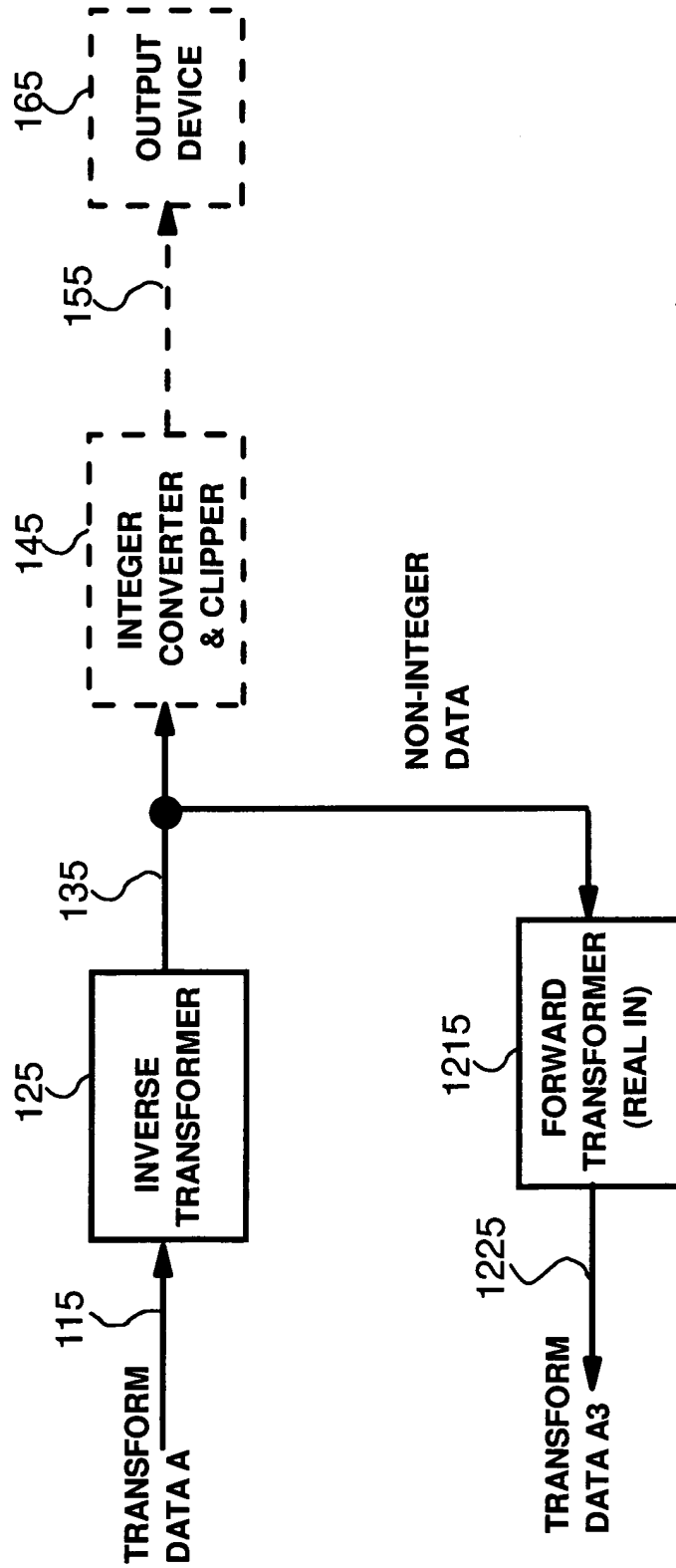


FIG. 12(b)

1300

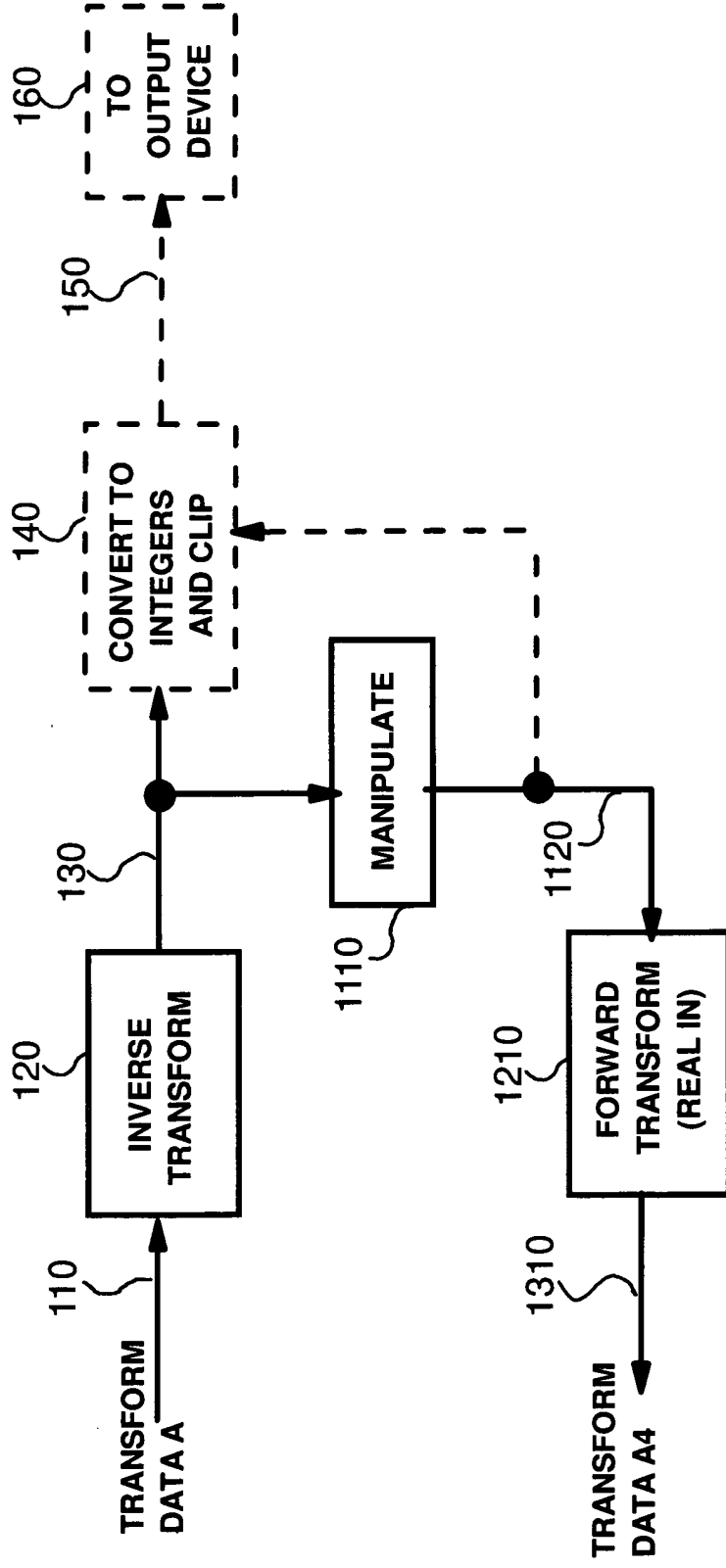


FIG. 13(a)

1305

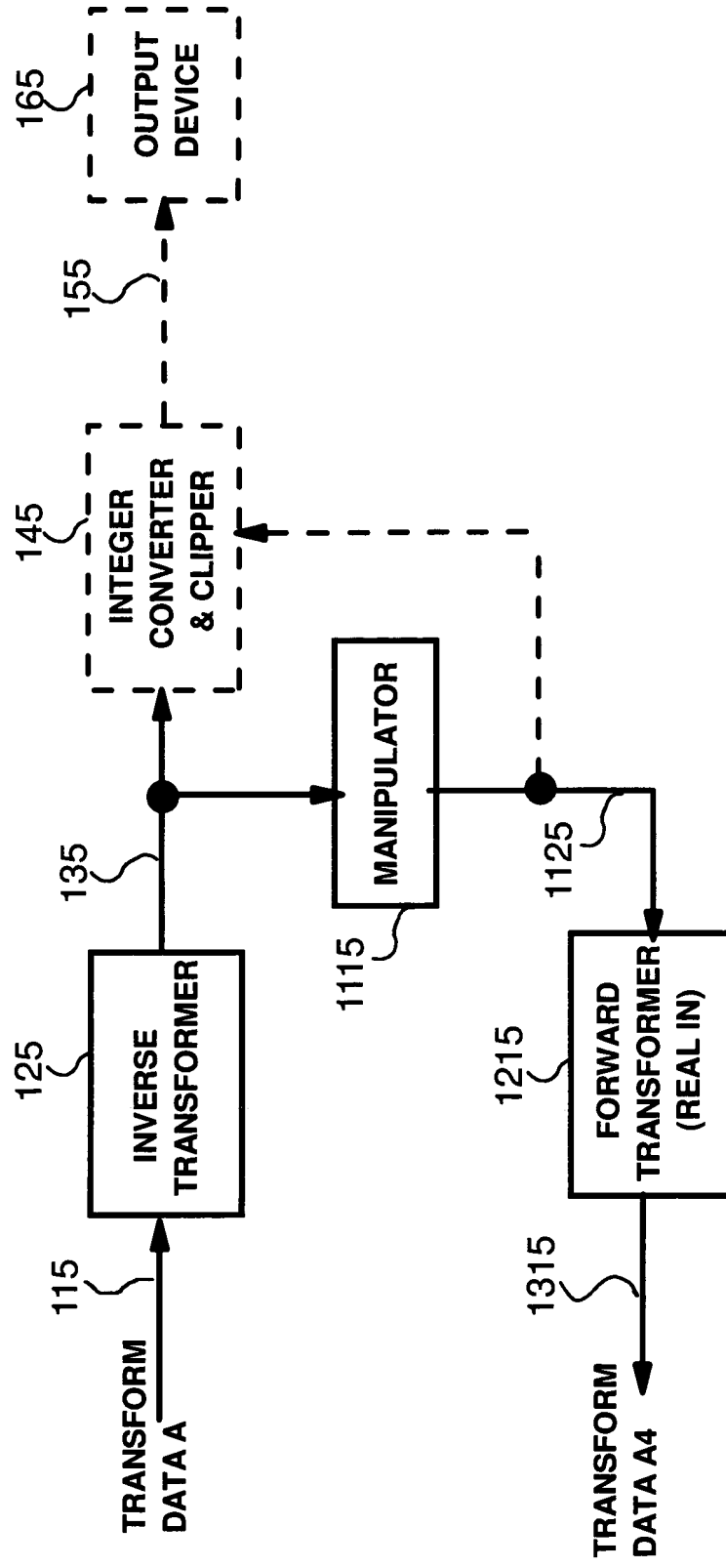


FIG. 13(b)

1400

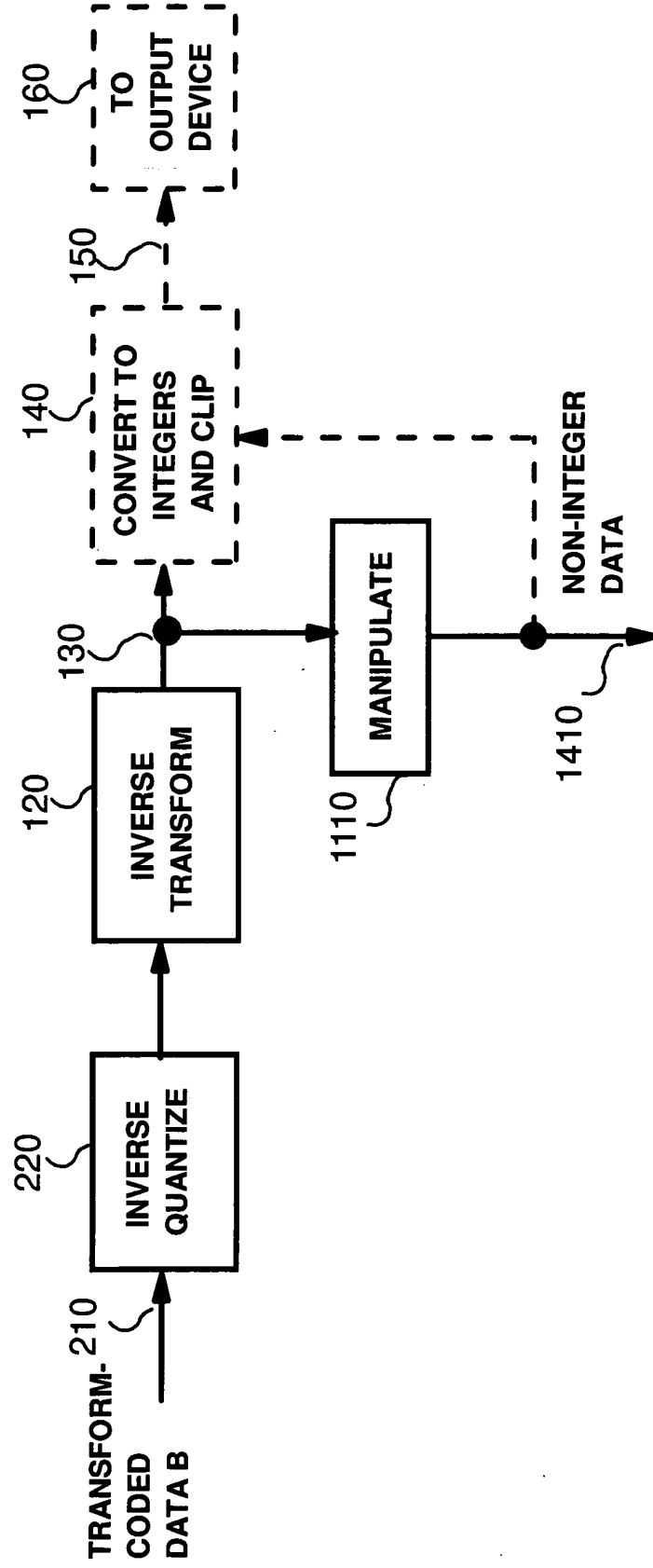


FIG. 14(a)

1405

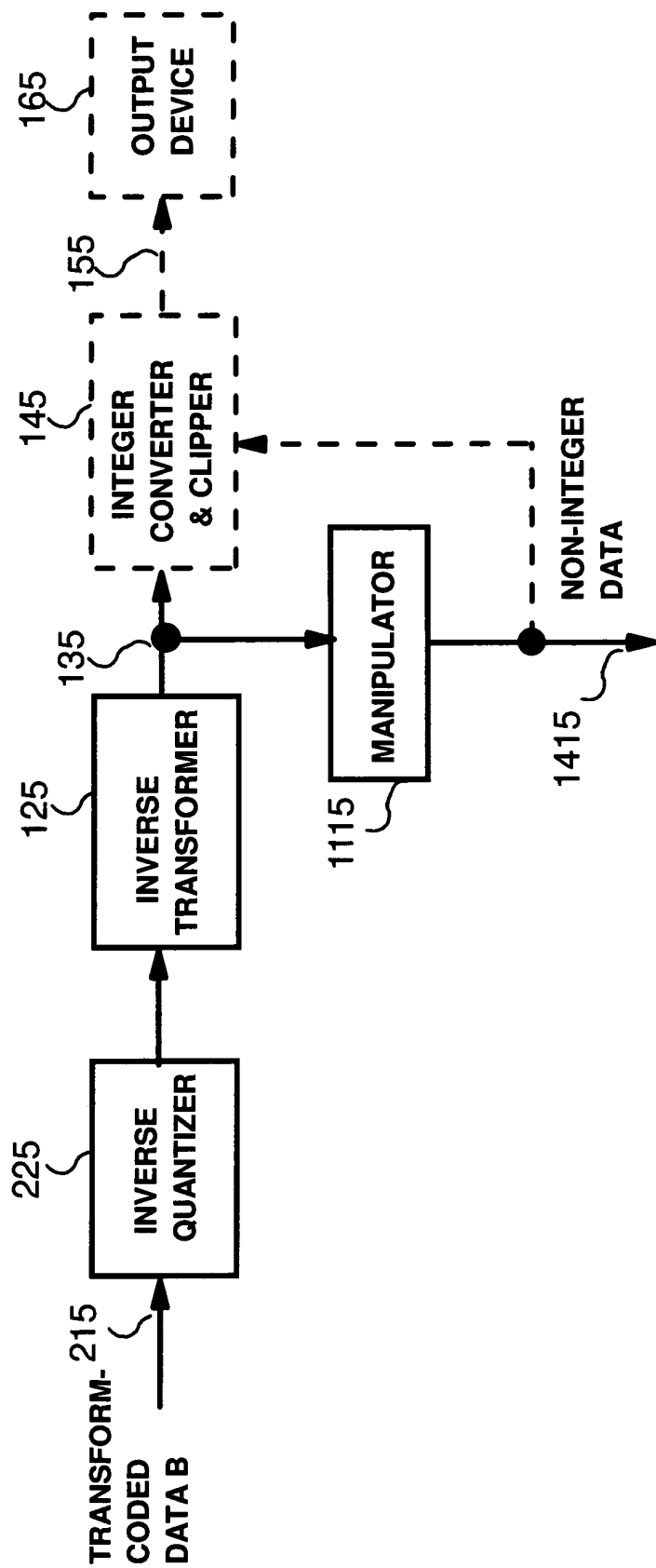


FIG. 14(b)

1500

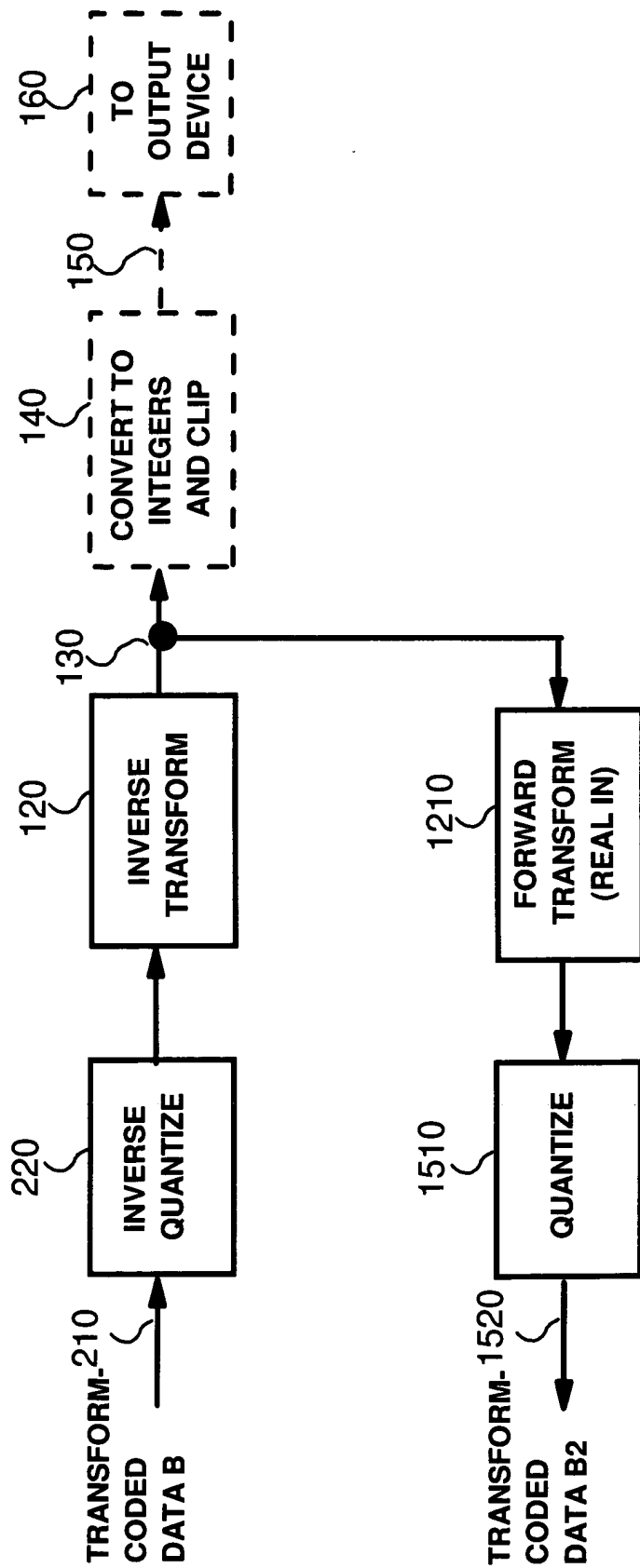


FIG. 15(a)

1505

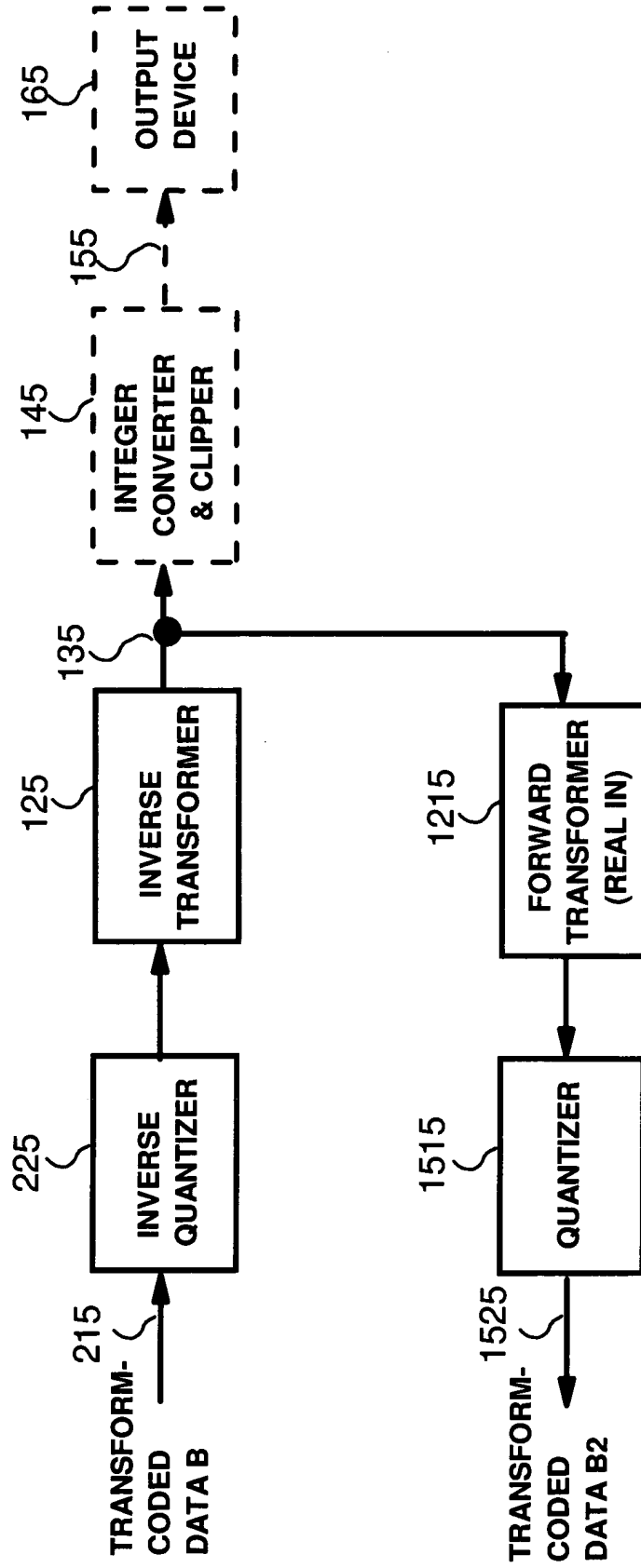


FIG. 15(b)

1600

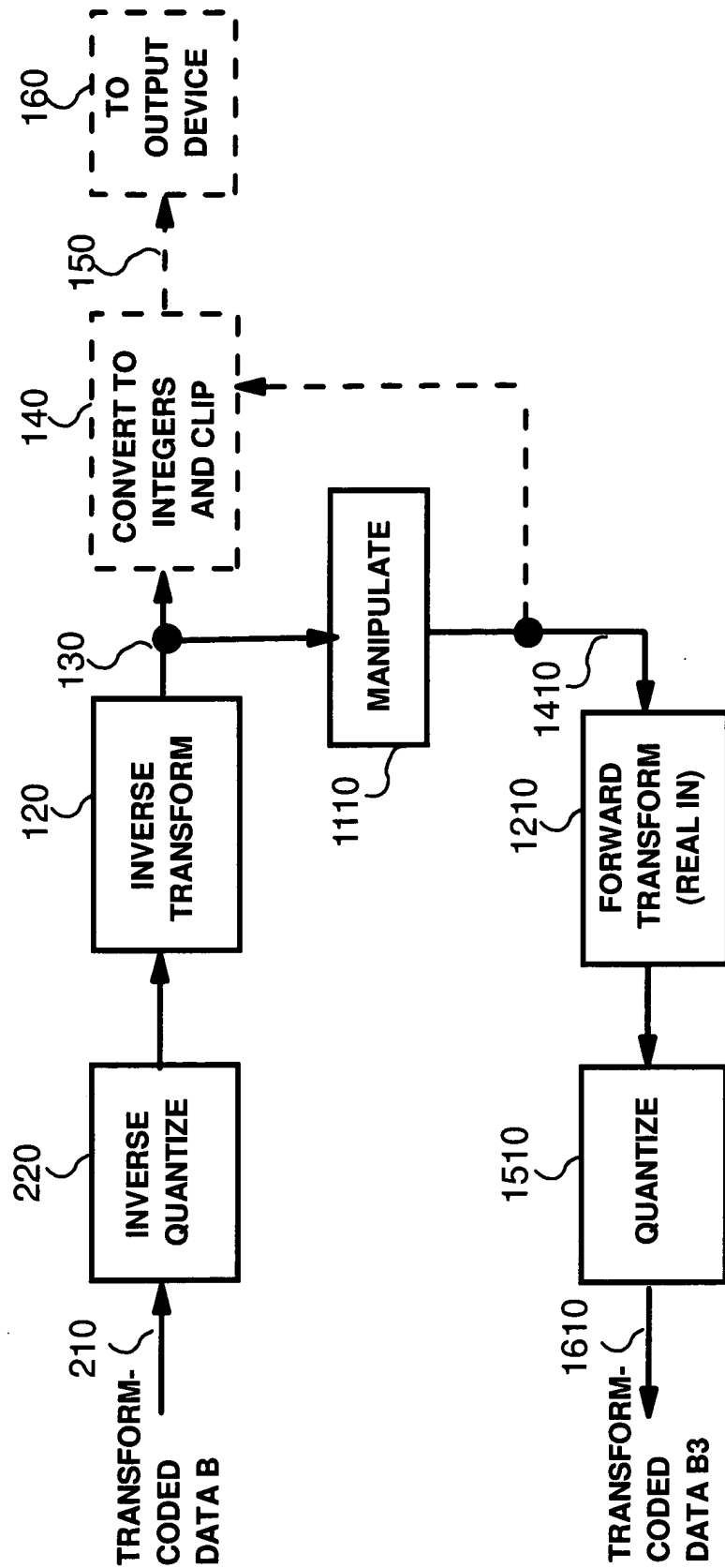


FIG. 16(a)

1605

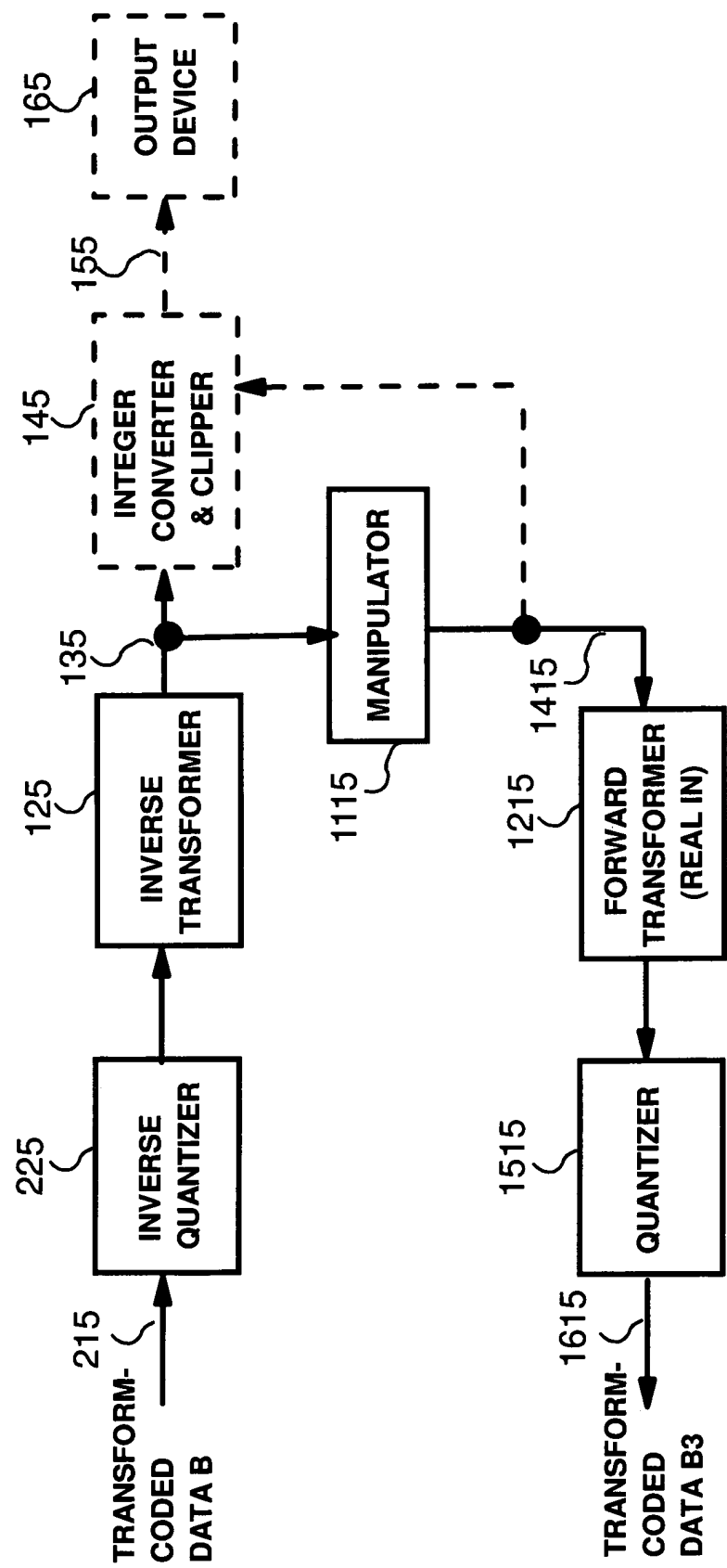


FIG. 16(b)

1700

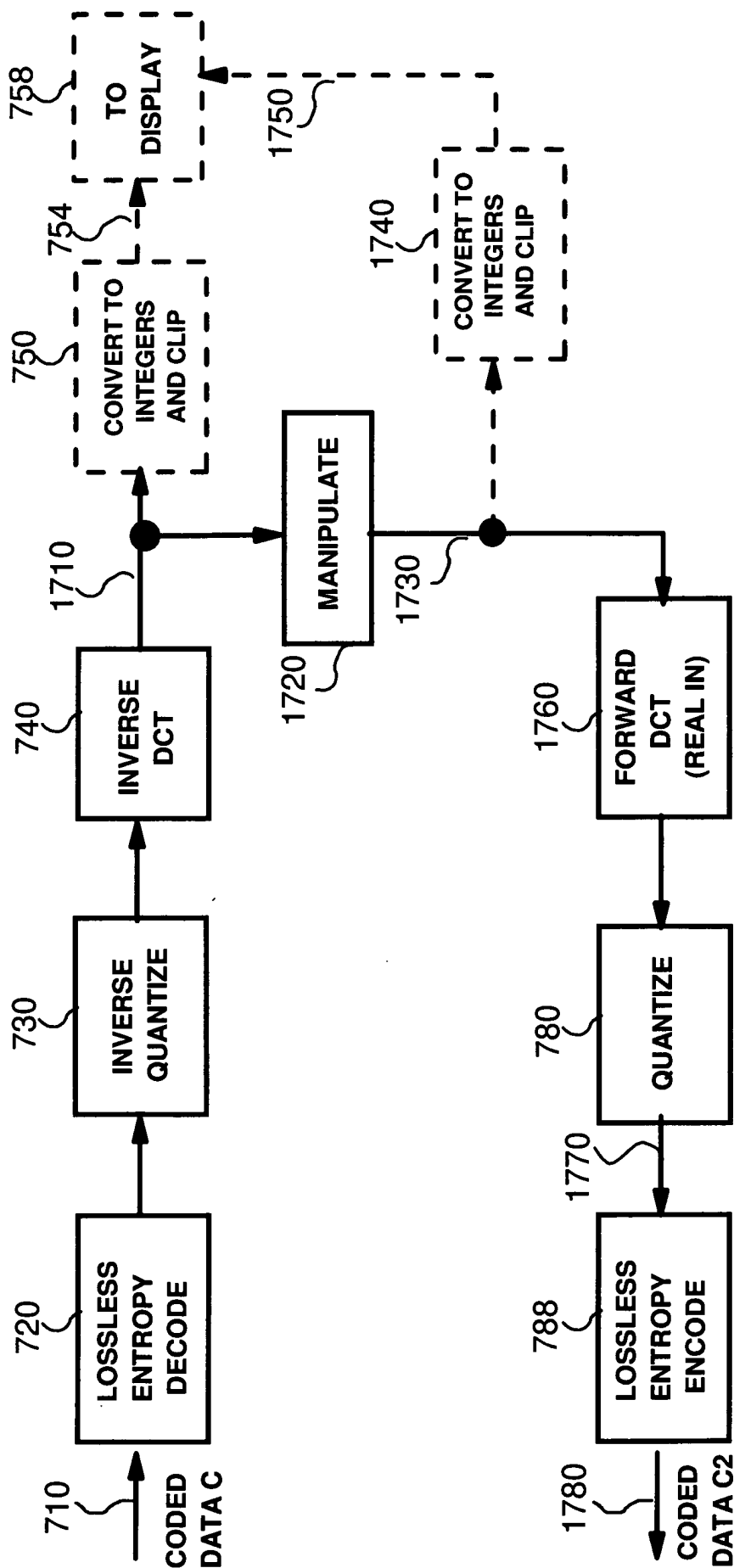


FIG. 17(a)

1705

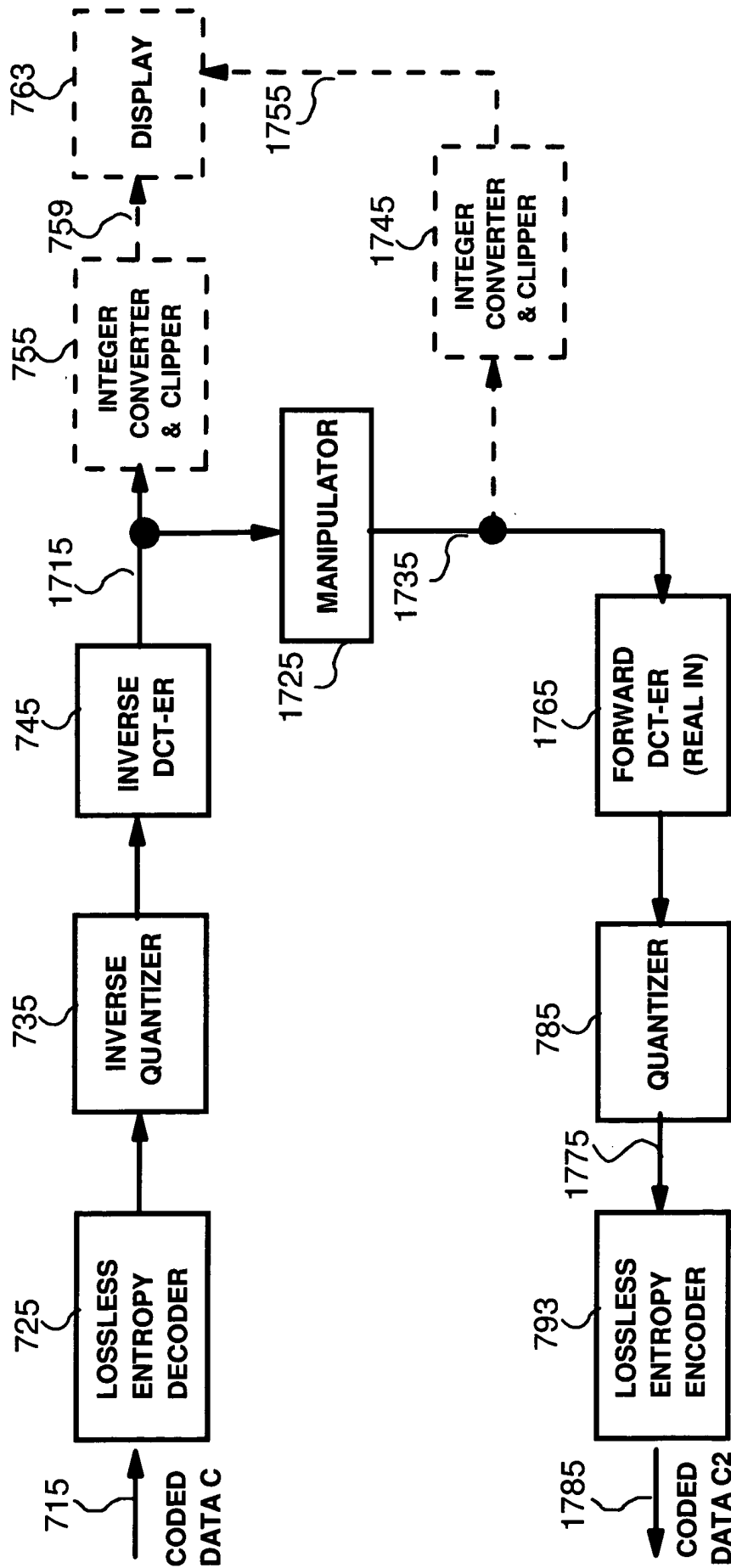


FIG. 17(b)

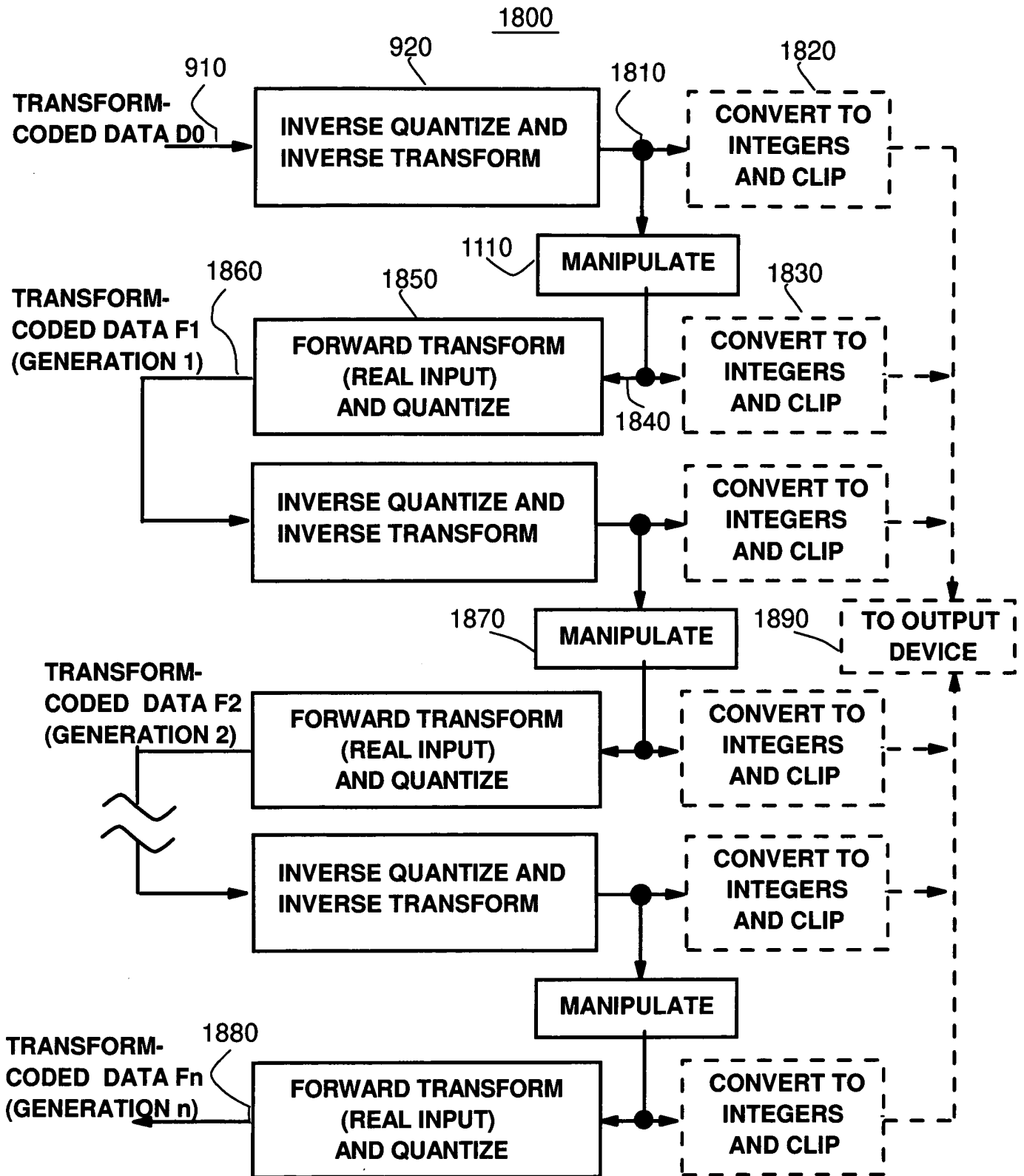


FIG. 18(a)

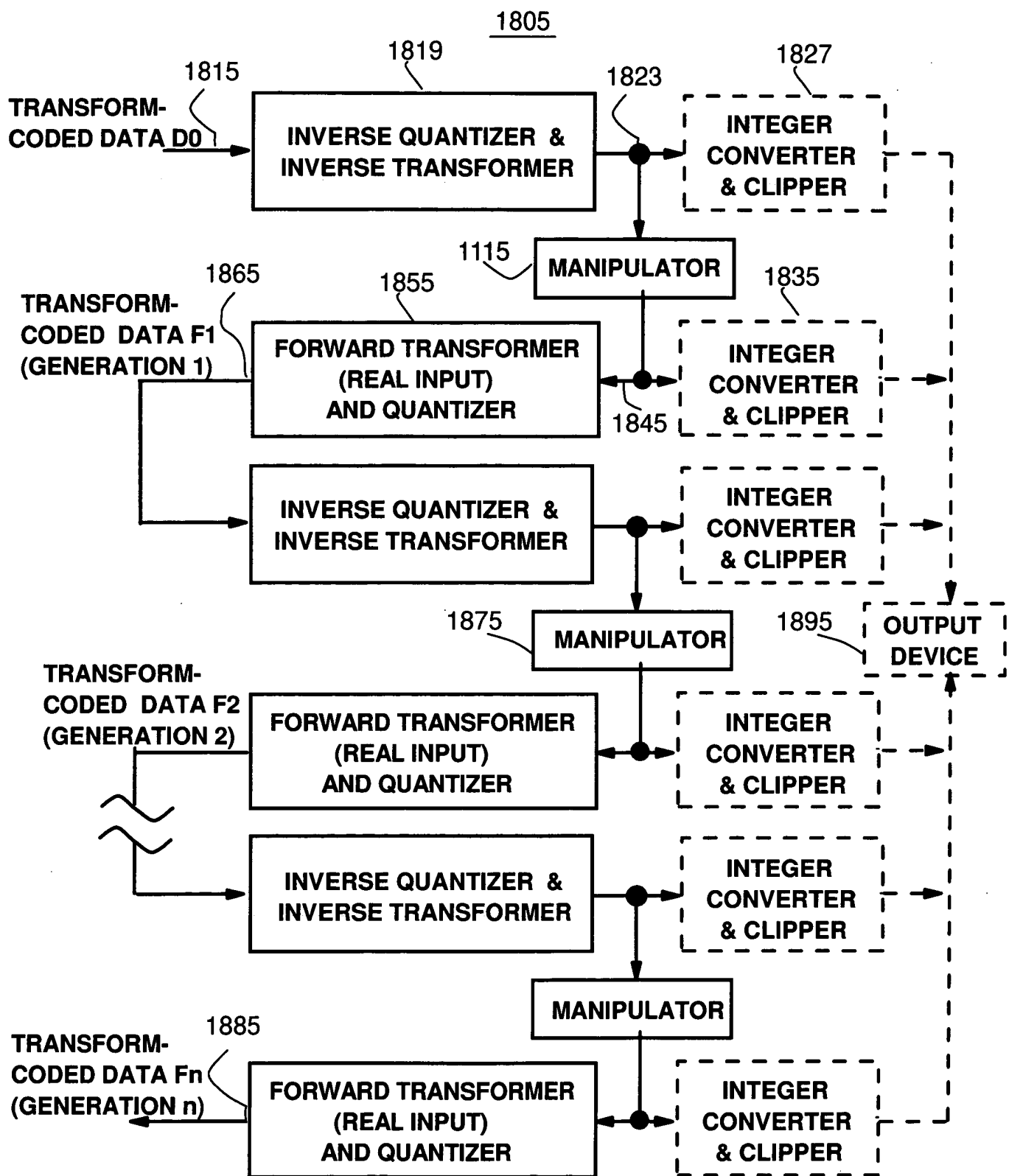


FIG. 18(b)

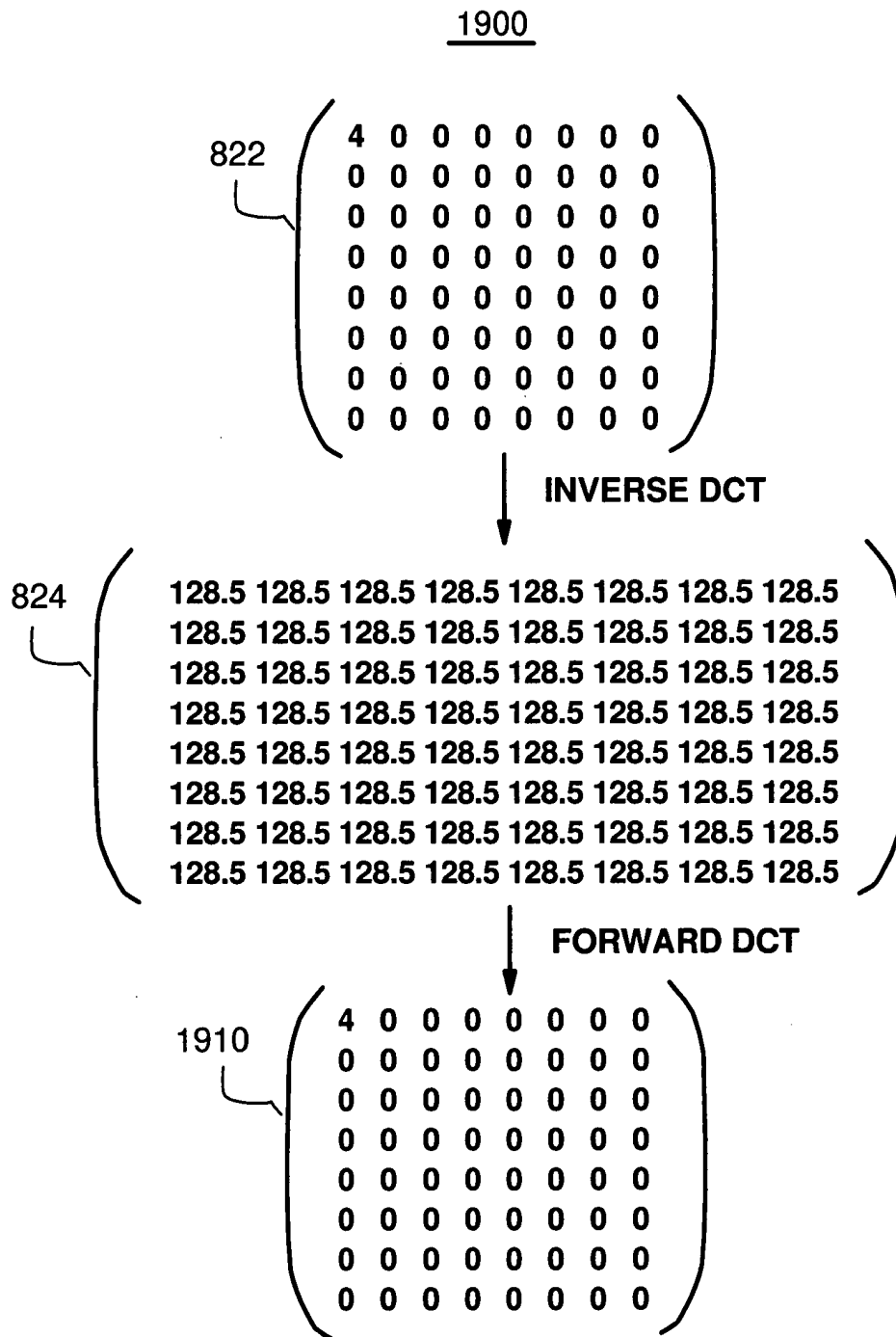


FIG. 19(a)

1930

832

$$\begin{pmatrix} 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$$

INVERSE DCT

834

$$\begin{pmatrix} 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 \\ 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 \\ 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 \\ 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 \\ 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 \\ 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 \\ 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 \\ 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 & 128.875 \end{pmatrix}$$

FORWARD DCT

1938

$$\begin{pmatrix} 7 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$$

FIG. 19(b)

1940

$$874 \begin{pmatrix} -34 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 5 \end{pmatrix}$$

INVERSE QUANTIZE

$$878 \begin{pmatrix} -544 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 495 \end{pmatrix}$$

INVERSE DCT & ROUND

$$882 \begin{pmatrix} 65 & 47 & 80 & 36 & 84 & 40 & 73 & 55 \\ 47 & 98 & 3 & 127 & -7 & 117 & 22 & 73 \\ 80 & 3 & 146 & -41 & 161 & -26 & 117 & 40 \\ 36 & 127 & -41 & 179 & -59 & 161 & -7 & 84 \\ 84 & -7 & 161 & -59 & 179 & -41 & 127 & 36 \\ 40 & 117 & -26 & 161 & -41 & 146 & 3 & 80 \\ 73 & 22 & 117 & -7 & 127 & 3 & 98 & 47 \\ 55 & 73 & 40 & 84 & 36 & 80 & 47 & 65 \end{pmatrix}$$

B

FIG. 19(c)

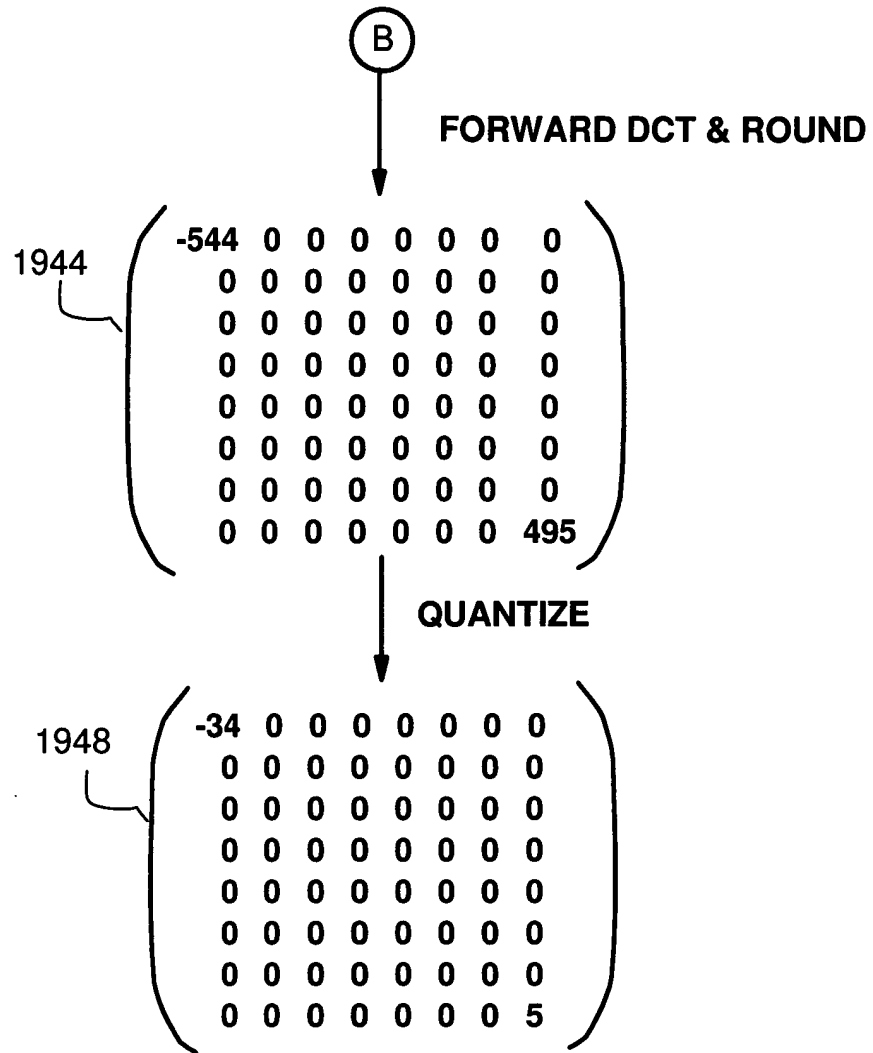


FIG. 19(d)